

ABSTRACT OF THE DISCLOSURE

A method of registering an IP (Internet Protocol) terminal device including a function to transmit and receive IP packets, to a line-switching exchanger including a database that is used for managing a type and a telephone number of a telephone set is provided. The method includes the steps of connecting the line-switching exchanger and a network-gateway device by use of a radio-base-station-connection line that is used for connecting radio base stations, connecting the network-gateway device and the IP terminal device through an IP network, and registering the IP terminal device as a radiotelephony device in the database. By registering the IP terminal device as a radiotelephony device in the database provided in the line-switching exchanger, the IP terminal device can receive a variety of supplementary services provided by the line-switching exchanger since the IP terminal device is defined as a radiotelephony device, for example, a PHS phone, by the line-switching exchanger. Additionally, data for each of IP terminal devices on an IP network stored in the database of the line-switching exchanger does not need to be updated when the IP terminal device is moved from one location to another location on the IP network since location information of the IP terminal device is initially registered in the database of the line-switching exchanger based on location-registration information of the IP terminal device.